AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the

application. The following listing provides the amended claims with the amendments marked

with deleted material crossed out and new material underlined to show the changes made.

Claims 1-35 (Canceled).

36. (Currently Amended) An integrated circuit comprising:

at least one metal layer comprising at least one thousand two pairs of conductors

effectively deposed in an effective preferred direction to interconnect one or more points within

on the integrated circuit, the effective preferred direction comprising a direction for at least forty

percent of the conductors on the metal layer; wherein a conductor comprises one or more wires,

each wire being a continuous segment deposed in a single direction,

each particular conductor pair of conductors comprising:

a first wire deposed in a first Manhattan direction relative to the boundaries of the

integrated circuit, the first wire comprising a first wire length including first and second

ends:

a second wire deposed in a second Manhattan direction relative to the boundaries

of the integrated circuit, the first Manhattan direction being different than the second

Manhattan direction, the second wire comprising a second wire length including first and

second ends, the first end of the second wire being coupled to the second end of the first

wire;

wherein each wire being a continuous segment deposed in a single direction; and

Attorney Docket: SPLX.P0007 PTO Serial: 10/043,853 wherein, an the effective wiring preferred direction of the pairs of conductors a particular

conductor comprises an angle, A, measured relative to the boundaries of the integrated circuit,

defined by the expression Tan A = Y/X,

wherein, Y comprises a line segment with a distance starting from the second end of the

second wire in the last conductor pair and ending at an intersection with a line segment

propagated from the first end of the first wire and in the direction of the first wire, and X

comprises a distance, measured in the direction of the first wire, starting from the first end of the

first wire and ending with the intersection of the Y line segment.

37. (Original) The integrated circuit as set forth in claim 36, wherein the first Manhattan

direction comprises a horizontal direction and the second Manhattan direction comprises a

vertical direction.

38. (Original) The integrated circuit as set forth in claim 36, wherein the first Manhattan

direction comprises a vertical direction and the second Manhattan direction comprises a

horizontal direction.

39. (Original) The integrated circuit as set forth in claim 36, wherein the first wire length

equals the second wire length so as to simulate an effective direction of 45 degrees.

40. (Original) The integrated circuit as set forth in claim 36, wherein the ratio of the first

wire length to the second wire length equals three to two, so as to simulate an effective wiring

direction of 60 degrees.

41. (Original) The integrated circuit as set forth in claim 36, wherein the metal layer

comprises a plurality of independent conductors deposed in parallel.

Claims 42-47 (Canceled).

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48. (New) An integrated circuit (IC) comprising:

a metal layer;

a set of at least ten routes on said metal layer;

each particular route formed by two sets of wire segments that alternate along only two

directions, each set of wire segments only having wire segments along one of said two directions,

wherein said two directions are approximately perpendicular, wherein a ratio of the length of

wire segments along one direction to the length of wire segments along the other direction is

approximately equal for all said routes, wherein said ratio is selected such that said routes

effectively traverse along said metal layer in a particular effective direction.

49. (New) The IC of claim 48, wherein said set of at least ten routes on said metal layer

comprises 1000 routes.

50. (New) The IC of claim 48, wherein the first and second routes are parallel in that each

of a set of wire segments in the first route is parallel to at least one wire segment in the second

route.

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